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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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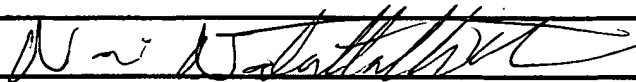
Complete if Known

Application Number 10/788, 501
Filing Date February 26, 2004
First Named Inventor Richard J. Melker
Group Art Unit 3736
Examiner Name Not yet assigned
Attorney Docket Number UF-270C2

U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-----------------------|--------------------------|-----------------------------|--------------------|--------------------------------|---|---|
| | | Number Code ² | Kind (if known) | | | |
| MJ | U1 | 3,567,029 | | 03-02-1971 | Quame | |
| | U2 | 3,608,546 | | 09-28-1971 | Shinn | |
| | U3 | 3,877,291 | | 4-15-1975 | Hoppesch <i>et al.</i> | |
| | U4 | 3,955,926 | | 5-11-1976 | Fischer | |
| | U5 | 4,215,409 | | 07-29-1980 | Strowe | |
| | U6 | 4,334,540 | | 6-15-1982 | Preti <i>et al.</i> | |
| | U7 | 4,349,626 | | 9-14-1982 | Labows <i>et al.</i> | |
| | U8 | 4,432,226 | | 02-21-1984 | Dempster | |
| | U9 | 4,456,014 | | 06-26-1984 | Buck <i>et al.</i> | |
| | U10 | 4,534,360 | | 8-13-1985 | Williams | |
| | U11 | 4,772,559 | | 9-20-1998 | Preti <i>et al.</i> | |
| | U12 | 4,868,545 | | 09-19-1989 | Jones | |
| | U13 | 5,082,630 | | 01-21-1992 | Partin <i>et al.</i> | |
| | U14 | 5,167,972 | A | 12-01-1992 | Greenberg <i>et al.</i> | |
| | U15 | 5,296,706 | A | 03-22-1994 | Braig <i>et al.</i> | |
| | U16 | 5,361,771 | A | 11-08-1994 | Craine <i>et al.</i> | |
| | U17 | 5,409,839 | A | 04-25-1995 | Balestrieri <i>et al.</i> | |
| | U18 | 5,453,359 | A | 09-26-1995 | Gargan <i>et al.</i> | |
| | U19 | 5,482,601 | A | 1-09-1996 | Ohshima <i>et al.</i> | |
| | U20 | 5,495,744 | A | 03-05-1996 | Ueda <i>et al.</i> | |
| | U21 | 5,571,401 | A | 11-05-1996 | Lewis <i>et al.</i> | |
| | U22 | 5,573,955 | A | 11-12-1996 | Khanna <i>et al.</i> | |
| | U23 | 5,634,517 | A | 06-03-1997 | Linden <i>et al.</i> | |
| | U24 | 5,645,072 | A | 7-08-1997 | Thrall <i>et al.</i> | |
| | U25 | 5,716,852 | A | 02-10-1998 | Yager <i>et al.</i> | |
| | U26 | 5,783,449 | A | 7-21-1998 | Kuznetsov | |
| | U27 | 5,801,297 | A | 09-01-1998 | Mifsud <i>et al.</i> | |

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12/16/05

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| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|--------------------------|-----------------------------|--------------------|--------------------------------|---|---|
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| | | Number Code ² | Kind (if known) | | | |
| N/A | U28 | 5,826,577 | A | 10-27-1998 | Perroz <i>et al.</i> | |
| | U29 | 5,861,254 | A | 1-19-1999 | Schneider <i>et al.</i> | |
| | U30 | 5,866,434 | A | 02-02-1999 | Massey <i>et al.</i> | |
| | U31 | 5,891,398 | A | 04-06-1999 | Lewis <i>et al.</i> | |
| | U32 | 5,925,014 | A | 07-20-1999 | Teeple Jr. | |
| | U33 | 5,928,167 | A | 07-27-1999 | Wagner <i>et al.</i> | |
| | U34 | 5,932,877 | A | 08-03-1999 | Braig <i>et al.</i> | |
| | U35 | 5,958,896 | A | 09-28-1999 | Renshaw <i>et al.</i> | |
| | U36 | 5,996,586 | A | 12-07-1999 | Phillips | |
| | U37 | 6,007,775 | A | 12-28-1999 | Yager | |
| | U38 | 6,025,200 | A | 02-15-2000 | Kaish <i>et. al</i> | |
| | U39 | 6,057,162 | A | 5-02-2000 | Rounbehler <i>et al.</i> | |
| | U40 | 6,063,243 | A | 5-16-2000 | Zettl <i>et al.</i> | |
| | U41 | 6,067,167 | A | 5-23-2000 | Atkinson <i>et al.</i> | |
| | U42 | 6,074,345 | A | 06-13-2000 | Van Oostrom <i>et al.</i> | |
| | U43 | 6,094,681 | | 07-25-2000 | Shaffer <i>et al.</i> | |
| | U44 | 6,097,485 | A | 08-01-2000 | Lievan | |
| | U45 | 6,120,443 | A | 09-19-2000 | Cohen-Laroque | |
| | U46 | 6,131,571 | A | 10-17-2000 | Lampotang <i>et al.</i> | |
| | U47 | 6,153,147 | A | 11-28-2000 | Craig | |
| | U48 | 6,190,858 | B1 | 2-20-2001 | Persaud <i>et al.</i> | |
| | U49 | 6,203,814 | B1 | 3-20-2001 | Fisher <i>et al.</i> | |
| | U50 | 6,221,026 | B1 | 4-24-2001 | Phillips | |
| | U51 | 6,234,006 | B1 | 05-22-2001 | Sunshine <i>et al.</i> | |
| | U52 | 6,237,397 | B1 | 05-29-2001 | Shinar <i>et al.</i> | |
| U53 | 6,248,078 | B1 | 6-19-2001 | Risby <i>et al.</i> | | |
| U54 | 6,261,783 | B1 | 7-17-2001 | Jayasena <i>et al.</i> | | |
| U55 | 6,264,913 | B1 | 07-24-2001 | Wagner | | |

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| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number Code ² | Kind (if known) | | | |
| NW | U56 | 6,277,081 | B1 | 08-21-2001 | Susi et al. | |
| | U57 | 6,283,953 | B1 | 09-04-2001 | Ayer et al. | |
| | U58 | 6,303,316 | B1 | 10-16-2001 | Kiel et al. | |
| | U59 | 6,312,390 | B1 | 11-06-2001 | Phillips | |
| | U60 | 6,363,772 | B1 | 4-02-2002 | Berry | |
| | U61 | 6,387,329 | B1 | 5-14-2002 | Lewis et al. | |
| | U62 | 6,399,302 | B1 | 6-04-2002 | Lannigan et al. | |
| | U63 | 6,416,479 | B1 | 07-09-2002 | Seidman | |
| | U64 | 6,455,319 | B1 | 09-24-2002 | Lewis et al. | |
| | U65 | 6,467,333 | B2 | 10-22-2002 | Lewis et al. | |
| | U66 | 6,479,019 | B1 | 11-12-2002 | Goldstein et al. | |
| | U67 | 6,495,824 | B1 | 12-17-2002 | Atkinson | |
| | U68 | 6,558,626 | B1 | 05-06-2003 | Aker et al. | |
| | U69 | 6,589,727 | B1 | 07-08-2003 | Kleneman et al. | |
| | U70 | 6,597,438 | B1 | 07-22-2003 | Cabuz et al. | |
| | U71 | 6,598,459 | B1 | 07-29-2003 | Fu | |
| | U72 | 6,599,253 | B1 | 07-29-2003 | Baum et al. | |
| | U73 | 6,620,800 | B1 | 09-16-2003 | Roberts II | |
| | U74 | 6,631,333 | B1 | 10-07-2003 | Lewis et al. | |
| | U75 | 6,727,075 | B2 | 04-27-2004 | Fitzgerald et al. | |
| | U76 | 6,755,783 | B2 | 06-29-2004 | Cosentino et al. | |
| | U77 | 2001/0021815 | A1 | 09-13-2001 | Katzman et al. | |
| | U78 | 2001/0046674 | A1 | 11-29-2001 | Ellington | |
| | U79 | 2001/0050228 | A1 | 12-13-2001 | Jaeger | |
| | U80 | 2001/0055544 | A1 | 12-27-2001 | Copp | |
| | U81 | 2002/0007687 | A1 | 01-24-2002 | Zimmermann et al. | |
| | U82 | 2002/0068295 | A1 | 6-06-2002 | Madou et al. | |
| | U83 | 2002/0034757 | A1 | 3-21-2002 | Cubiciotti | |
| | U84 | 2003/0004426 | A1 | 01-02-2003 | Melker et al. | |
| | U85 | 2003/0059820 | A1 | 03-27-2003 | Vo-Dinh | |
| | U86 | 2003/0087239 | A1 | 05-08-2003 | Stanton et al. | |

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| | | | Group Art Unit | 3736 |
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| | | Code ⁵ Office ³ known) | Kind Number ⁴ (if | | | | |
| <i>RM</i> | F1 | | DE 19607646 (English Abstract) A1 | Muehlenberg <i>et al.</i> | 09-11-1997 | | |
| | F2 | | DE 29902593 (English Abstract) | Genzyme Virotech GmbH | 08-26-1999 | | |
| | F3 | | EP 0 370 151 A1 | L'Air Liquide, S. A. | 05-30-1990 | | |
| | F4 | | EP 0 979 997 (English Abstract) A1 | Siemens AG | 02-16-2000 | | |
| | F5 | | GB 829,409 A | Governors of the United Birmin | 03-02-1960 | | |
| | F6 | | GB 2 309 166 A | Cleansharp Limited | 07-23-1997 | | |
| | F7 | | GB 2 329 245 A | Cavkit Limited | 03-17-1999 | | |
| | F8 | | JP 08313407 (English Abstract) A | Suzuki Motor Corp. | 11-29-1996 | | |
| | F9 | | JP 09196915 (English Abstract) A | Otsuka Pharmaceut Co. Ltd. | 07-31-1997 | | |
| | F10 | | RU 2104535 C1 (English Abstract) | Kogan <i>et. al.</i> | 02-10-1998 | | |
| | F11 | | WO 87/02773 A1 | Autosense Corp. | 05-07-1987 | | |
| | F12 | | WO 95/08113 A1 | Alpha M.O.S. | 03-23-1995 | | |
| | F13 | | WO 98/57145 A1 | Quadrivium, L.L.C. | 12-17-1998 | | |
| | F14 | | WO 00/25108 A1 | Copp Life Systems | 05-04-2000 | | |
| | F15 | | WO 00/79243 A1 | Cyrano Sciences, Inc. | 12-28-2000 | | |
| | F16 | | WO 2002/079514 A1 | The Trustees of Boston College | 10-10-2002 | | |
| | F17 | | WO 03/016901 A1 | Samsung Electronics Co., Ltd. | 02-27-2003 | | |
| <i>RM</i> | F18 | | WO 2004/065404 A1 | University of Florida Research Foundation, Inc. | 08-05-2004 | | |

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| OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS | | | |
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| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| UK | R1 | DICKINSON, T. A. <i>et al.</i> , "Current Trends in 'Artificial-Nose' Technology," <i>Tib Tech</i> , 1998, 16:250-258. | |
| | R2 | FISHER <i>et al.</i> "A man-portable chemical sniffer utilizing Novel Fluorescent polymers for detection of ultra-trace concentrations of explosives emanating from landmines," <i>Nomadics Inc.</i> (2000), PAGES 1-10. | |
| | R3 | GANGA-ZANDZOU, P.S. <i>et al.</i> "A 13C-urea breath test in children with <i>Helicobacter pylori</i> infection: validity of the use of a mask to collect exhaled breath sample," <i>Acta. Paediatr.</i> (2001), Volume 90, pages 232-233. | |
| | R4 | HAMMON III, W. S. <i>et al.</i> , "Forensic GPR: Finite-Difference Simulations of Responses From Buried Human Remains," <i>Journal of Applied Geophysics</i> , (2000), 45:171-186. | |
| | R5 | HONG, C. <i>et al.</i> , "Carbon Nanotube-Enhanced Electrochemical DNA Biosensor for DNA Hybridization Detection" (2003), <i>Anal. Bioanal. Chem.</i> , 375:287-293. | |
| | R6 | LIEBICH <i>et al.</i> "Volatile Substances in Blood Serum: a Profile Analysis and Quantitative Determination," <i>Journal of Chromatography</i> (1977), Volume 142, pages 505-516. | |
| | R7 | MILLER III, E. R. <i>et al.</i> , "Association Between Cigarette Smoking and Lipid Peroxidation in a Controlled Feeding Study," <i>Circulation</i> , (1997), 96(4):1097-1101. | |
| | R8 | MUELLER <i>et al.</i> "Experience in mass spectrometric identification in acute poisoning," <i>Beitr. Diagn. Ther. Akuter. Intox., Vortr. Symp. 4th</i> (1982), pages 126-134, ABSTRACT ONLY. | |
| | R9 | PANTAROTTO D. <i>et al.</i> , "Synthesis, Structural Characterization, and Immunological Properties of Carbon Nanotubes Functionalized with Peptides" (2003), <i>J. Am. Chem. Soc.</i> , 125:6160-6164. | |
| | R10 | PAVLOU and TURNER. "Sniffing out the truth: Clinical Diagnosis Using the Electronic Nose," <i>Clin. Chem. Lab. Med.</i> (2000), Volume 38, number 2, pages 99-112. | |
| UK | R11 | PERRI, F. "Diagnosis of <i>Helicobacter pylori</i> infection: which is best? The urea breath test," <i>Dig. Liver. Dis.</i> (2000), Volume 32, Supp. 3, pages S196-198. | |

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| Examiner Signature | <i>[Signature]</i> | Date Considered | 12/16/05 |
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Application Number | 10/788, 501 |
| | | Filing Date | February 26, 2004 |
| | | First Named Inventor | Richard J. Melker |
| | | Group Art Unit | 3736 |
| | | Examiner Name | Not yet assigned |
| | | Attorney Docket Number | UF-270C2 |
| Sheet | 7 | of | 7 |

| OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS | | | |
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| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| JP | R12 | Pilar Kraman, "Prescription Drug Diversion," <i>Trends Alert</i> provided by the Council of State Government at www.csg.org (April 2004). | |
| | R13 | ROGERS <i>et al.</i> "Fiber-optic biosensors based on total internal-reflection fluorescence," <i>American Chemical Society</i> (1992), Ch. 13, pages 165-173. | |
| | R14 | STUART, B. H. <i>et al.</i> , "Studies of Adipocere Using Diffuse Reflectance Infrared Spectroscopy," <i>Vibrational Spectroscopy</i> , 24:233-242, (2000). | |
| | R15 | STUBBS, D. D. <i>et al.</i> , "Investigation of Cocaine Plumes Using Surface Acoustic Wave Immunoassay Sensors," <i>Anal. Chem.</i> , 75:6231-6235, (2003). | |
| | R16 | TRACQUI, A. <i>et al.</i> "Systematic Toxicological Analysis Using HPLC/DAD," <i>Journal of Forensic Sciences</i> (1995), Volume 40, Number 2, pages 254-262. | |
| | R17 | U.S. FOOD AND DRUG ADMINISTRATION, "FDA White Paper, Protecting the Public Health: FDA Pursues and Aggressive Enforcement Strategy," www.fda.gov/oc/whitepapers/enforce.html (06-30-2003). | |
| | R18 | U.S. FOOD AND DRUG ADMINISTRATION, "New FDA Initiative to Combat Counterfeit Drugs," www.fda.gov/oc/initiatives/counterfeit/background.html (07-02-2004). | |
| | R19 | UNITED STATES DEPARTMENT OF JUSTICE, "Review of the Drug Enforcement Administration's (DEA) Control of the Diversion of Controlled Pharmaceuticals," Report Number I-2002-010 www.usdoj.gov/oig/inspection/DEA/0210/background.htm (September 2002). | |
| | R20 | VASS, A., "Beyond the Grave – Understanding Human Decomposition," <i>Microbiology Today</i> , Nov. 2001, 28:190-192. | |
| ✓ | R21 | VASS, A. <i>et al.</i> , "Decomposition Chemistry of Human Remains: A New Methodology for Determining the Postmortem Interval," <i>J. Forensic Sci.</i> , (2002), 47(3):542-553. | |
| NN | R22 | VASS, A. <i>et al.</i> , "Detection of Buried Human Remains Using Bioreporter Fluorescence," U.S. Dept. of Energy Report, Y/NSP-726 (2001). | |

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| | | | | First Named Inventor | Richard J. Melker |
| | | | | Art Unit | 3736 |
| | | | | Examiner Name | |
| Sheet | 1 | of | 7 | Attorney Docket Number | UF-270C2 |

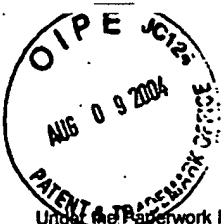
| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|--------------------------|---------------------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Country Code ³ | Number ⁴ - Kind Code ⁵ (if known) | | | |
| [Handwritten initials] | F1 | WO | 92/10749 | 06-25-1992 | Novapure Corporation | ALL |
| | F2 | WO | 95/31718 | 11-23-1995 | Forschungszentrum Karlsruhe GmbH | ALL |
| | F3 | WO | 99/12471 | 03-18-1999 | Oridion Medical Ltd. | ALL |
| | F4 | WO | 01/34024 | 05-17-2001 | University of Florida | ALL |
| [Handwritten initials] | F5 | WO | 03/045473 | 06-05-2003 | Mufa Ag | ALL |
| | F6 | WO | 00/67820 | 11-16-2000 | Aneo Ab | ALL |
| [Handwritten initials] | F7 | WO | 01/93743 | 12-13-2001 | Healthetech, Inc. | ALL |
| | F8 | WO | 99/66304 | 12-23-1999 | California Institute of Technology | ALL |
| | F9 | | | | | |
| | F10 | | | | | |
| | F11 | | | | | |
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| | | | | Examiner Name | |
| Sheet | 2 | of | 7 | Attorney Docket Number | UF-270C2 |

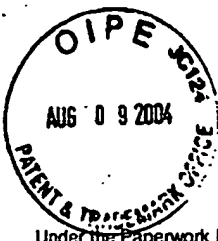
| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. 1 | Document Number Number - Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| W | U1 | US-3,649,199 | 03-14-1972 | Littlejohn | ALL |
| | U2 | US-3,792,272 | 02-12-1974 | Harte et al. | ALL |
| | U3 | US-3,951,607 | 04-20-1976 | Fraser | ALL |
| | U4 | US-4,150,670 | 04-24-1979 | Jewett et al. | ALL |
| | U5 | US-4,202,352 | 05-13-1980 | Osborn | ALL |
| | U6 | US-4,312,228 | 01-26-1982 | Wohljen | ALL |
| | U7 | US-4,314,564 | 02-09-1982 | Albarda | ALL |
| | U8 | US-4,346,584 | 08-31-1982 | Boehringer | ALL |
| | U9 | US-4,361,026 | 11-30-1982 | Muller et al. | ALL |
| | U10 | US-4,399,686 | 08-23-1983 | Kindlund et al. | ALL |
| | U11 | US-4,734,777 | 03-29-1988 | Okino et al. | ALL |
| | U12 | US-4,735,777 | 04-05-1988 | Mitsui et al. | ALL |
| | U13 | US-4,796,639 | 01-10-1989 | Snow et al. | ALL |
| | U14 | US-4,895,017 | 01-23-1990 | Pyke et al. | ALL |
| | U15 | US-4,938,928 | 07-03-1990 | Koda et al. | ALL |
| | U16 | US-4,992,244 | 02-12-1991 | Grate | ALL |
| | U17 | US-5,003,985 | 04-02-1991 | White et al. | ALL |
| | U18 | US-5,034,192 | 07-23-1991 | Wrighton et al. | ALL |
| | U19 | US-5,042,501 | 08-27-1991 | Kenny et al. | ALL |
| AN | U20 | US-5,060,506 | 10-29-1991 | Douglas | ALL |
| | U21 | US-5,071,770 | 12-10-1991 | Kolesar, Jr. | ALL |

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| Examiner Signature | <i>W. J. Melker</i> | Date Considered | 12/15/05 |
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| Filing Date | February 26, 2004 |
| First Named Inventor | Richard J. Melker |
| Art Unit | 3736 |
| Examiner Name | |
| Attorney Docket Number | UF-270C2 |

Sheet

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U.S. PATENT DOCUMENTS

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|--------------------|-----------------------|---|--------------------------------|--|---|
| <i>MM</i> | U22 | US-5,081,871 | 01-21-1992 | Glaser | ALL |
| | U23 | US-5,094,235 | 03-10-1992 | Westenskow <i>et al.</i> | ALL |
| | U24 | US-5,111,827 | 05-12-1992 | Rantala | ALL |
| | U25 | US-5,137,692 | 08-11-1992 | Fritz | ALL |
| | U26 | US-5,145,645 | 09-08-1992 | Zakin <i>et al.</i> | ALL |
| | U27 | US-5,179,027 | 01-12-1993 | Fisher | ALL |
| | U28 | US-5,252,292 | 10-12-1993 | Hirata <i>et al.</i> | ALL |
| | U29 | US-5,303,575 | 04-19-1994 | Brown <i>et al.</i> | ALL |
| | U30 | US-5,317,156 | 05-31-1994 | Cooper <i>et al.</i> | ALL |
| | U31 | US-5,325,704 | 07-05-1994 | Mariani <i>et al.</i> | ALL |
| | U32 | US-5,351,522 | 10-04-1994 | Lura | ALL |
| | U33 | US-5,425,374 | 06-20-1995 | Ueda <i>et al.</i> | ALL |
| | U34 | US-5,447,165 | 09-05-1995 | Gustafsson | ALL |
| | U35 | US-5,465,608 | 11-14-1995 | Lokshin <i>et al.</i> | ALL |
| | U36 | US-5,466,700 | 11-14-1995 | Batenhorst <i>et al.</i> | ALL |
| | U37 | US-5,501,212 | 03-26-1996 | Psaros | ALL |
| | U38 | US-5,528,924 | 06-25-1996 | Wajid <i>et al.</i> | ALL |
| | U39 | US-5,547,878 | 08-20-1996 | Kell | ALL |
| | U40 | US-5,558,083 | 09-24-1996 | Bathe <i>et al.</i> | ALL |
| | U41 | US-5,560,352 | 10-01-1996 | Heim <i>et al.</i> | ALL |
| <i>MM</i> | U42 | US-5,573,005 | 11-12-1996 | Ueda <i>et al.</i> | ALL |

Examiner
Signature*Mr. [Signature]*Date
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12/16/05

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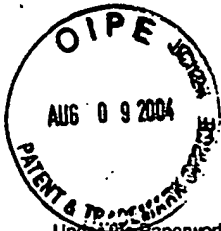
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| UN | U43 | US-5,605,612 | 02-25-1997 | Park <i>et al.</i> | ALL |
| | U44 | US-5,756,879 | 05-26-1998 | Yamagishi <i>et al.</i> | ALL |
| | U45 | US-5,771,890 | 06-30-1998 | Tamada | ALL |
| | U46 | US-5,776,783 | 07-07-1998 | Kell | ALL |
| | U47 | US-5,783,154 | 07-21-1998 | Althainz <i>et al.</i> | ALL |
| | U48 | US-5,795,787 | 08-18-1998 | Silkoff <i>et al.</i> | ALL |
| | U49 | US-5,830,412 | 11-03-1998 | Kimura <i>et al.</i> | ALL |
| | U50 | US-5,900,552 | 05-04-1999 | Chu <i>et al.</i> | ALL |
| | U51 | US-5,918,257 | 06-29-1999 | Mifsud <i>et al.</i> | ALL |
| | U52 | US-5,945,069 | 08-31-1999 | Buehler | ALL |
| | U53 | US-5,950,630 | 09-14-1999 | Portwood <i>et al.</i> | ALL |
| | U54 | US-5,954,685 | 09-21-1999 | Tierney | ALL |
| | U55 | US-5,962,335 | 10-05-1999 | Katzman | ALL |
| | U56 | US-5,971,937 | 10-26-1999 | Ekström | ALL |
| | U57 | US-6,010,459 | 01-04-2000 | Silkoff <i>et al.</i> | ALL |
| | U58 | US-6,085,576 | 07-11-2000 | Sunshine <i>et al.</i> | ALL |
| | U59 | US-6,136,801 | 10-24-2000 | Kell | ALL |
| | U60 | US-6,180,414 B1 | 01-30-2001 | Katzman | ALL |
| | U61 | US-6,186,977 B1 | 02-13-2001 | Andrews <i>et al.</i> | ALL |
| | U62 | US-6,216,690 B1 | 04-17-2001 | Keitel <i>et al.</i> | ALL |
| UN | U63 | US-6,244,096 B1 | 06-12-2001 | Lewis <i>et al.</i> | ALL |

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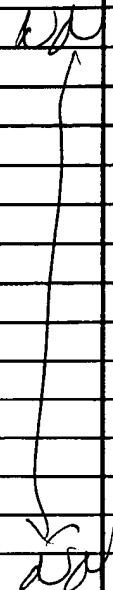
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| | | | Art Unit | 3736 | |
| | | | Examiner Name | | |
| Sheet | 5 | of | 7 | Attorney Docket Number | UF-270C2 |

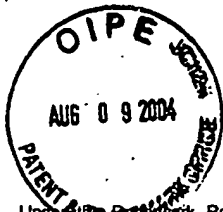
| U.S. PATENT DOCUMENTS | | | | | |
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| Examiner Initials* | Cite No. 1 | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number - Kind Code ² (if known) | | | |
|  | U64 | US-6,251,082 B1 | 06-26-2001 | Rayburn I | ALL |
| | U65 | US-6,305,212 B1 | 10-23-2001 | Drzewiecki | ALL |
| | U66 | US-6,319,724 | 11-20-2001 | Lewis <i>et al.</i> | ALL |
| | U67 | US-6,328,708 | 12-11-2001 | Georgieff | ALL |
| | U68 | US-6,341,520 | 01-29-2002 | Satoh <i>et al.</i> | ALL |
| | U69 | US-6,511,453 | 01-28-2003 | Georgieff | ALL |
| | U70 | US-6,599,281 | 07-29-2003 | Struys <i>et al.</i> | ALL |
| | U71 | US-6,680,377 B1 | 01-20-2004 | Stanton <i>et al.</i> | ALL |
| | U72 | US-2001/0041366 | 11-15-2001 | Lewis <i>et al.</i> | ALL |
| | U73 | US-2002/0007249 | 01-17-2002 | Cranley <i>et al.</i> | ALL |
| | U74 | US-2002/0014236 | 02-07-2002 | Dittmann <i>et al.</i> | ALL |
| | U75 | US-2002/0017300 | 02-14-2002 | Hickle <i>et al.</i> | ALL |
| | U76 | US-2002/0173729 | 11-21-2002 | Viertio-Oja <i>et al.</i> | ALL |
| | U77 | US-2002/0177232 | 11-28-2002 | Melker <i>et al.</i> | ALL |
| | U78 | US-2003/0008407 | 01-09-2003 | Fu <i>et al.</i> | ALL |
| | U79 | | | | |
| | U80 | | | | |
| U81 | | | | | |
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| U84 | | | | | |

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| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/788,501 |
| | | | | Filing Date | February 26, 2004 |
| | | | | First Named Inventor | Richard J. Melker |
| | | | | Group Art Unit | 3736 |
| Examiner Name | | | | | |
| Attorney Docket Number | UF-270C2 | | | | |
| Sheet | 6 | of | 7 | | |

| NON PATENT LITERATURE DOCUMENTS | | | |
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| W | R1 | BRODY <i>et al.</i> , "The use of Aptamers in Large Arrays for Molecular Diagnostics", <i>Molecular Diagnosis</i> , 1999, Vol. 4, No. 4, pp. 381-388. | |
| | R2 | BRODY <i>et al.</i> , "Aptamers as therapeutic and diagnostic agents", <i>Reviews in Molecular Biotechnology</i> , 2000, Vol. 74, pp. 5-13. | |
| | R3 | CHANDIOK <i>et al.</i> , "Screening for bacterial vaginosis: a novel application of artificial nose technology", <i>Journal of Clinical Pathology</i> , 1997, Vol. 50, No. 9, pp. 790-791. | |
| | R4 | FANG <i>et al.</i> , "Detection of Organic Chemicals by SAW Sensor Array", <i>Sensors and Actuators</i> , 1999, Vol. B56, pp. 155-157. | |
| | R5 | FRAUENDORF <i>et al.</i> , "Detection of Small Organic Analytes by Fluorescing Molecular Switches", <i>Bioorganic & Medicinal Chemistry</i> 9, 2001, pp. 2521-2524. | |
| | R6 | FUJITA <i>et al.</i> , "A Simple method for detecting plasma propofol", <i>Anesth. Analog</i> , 2000, Vol. 90, pp. 1452-1454. | |
| | R7 | GROVES <i>et al.</i> , "Analyzing organic vapors in exhaled breath using a surface acoustic wave sensor array with preconcentration: Selection and characterization of the preconcentrator adsorbent", <i>Analytica Chimica Acta</i> , 1998, pp. 131-143. | |
| | R8 | HANSON <i>et al.</i> , "The use of a novel electronic nose to diagnose the presence of intrapulmonary infection," <i>Anesthesiology</i> , Sep. 1997, Vol. 87, No. 3A, Abstract A269 | |
| | R9 | HUANG <i>et al.</i> , "Depth of anesthesia estimating & propofol delivery system", Aug. 1, 1996, http://www.rpi.edu/~royr/roy_descovt.html | |
| | R10 | JAYASENA, "Aptamers: An Emerging Class of Molecules That Rival Antibodies in Diagnostics" <i>Clinical Chemistry</i> , 1999, Vol. 45, No. 9, pp. 1628-1650. | |
| | R11 | KENNY, "Target-controlled infusions-pharmacokinetic and pharmacodynamic variations," http://www.anaesthesiologie.med.uni-erlangen.de/esctaic97/a_kenny.htm | |
| | R12 | KUIPERS <i>et al.</i> , "First-pass lung uptake and pulmonary clearance of propofol," <i>Anesthesiology</i> , 1999, Vol. 91, pp. 1780-1787. | |
| W | R13 | PARRY <i>et al.</i> , "Leg ulcer odour detection identified beta-haemolytic streptococcal infection," <i>Journal of Wound Care</i> , 1995, Vol. 4, pp. 404-406. | |

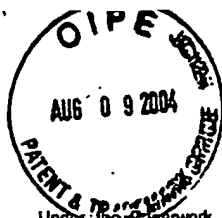
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| | | | | First Named Inventor | Richard J. Melker |
| | | | | Group Art Unit | 3736 |
| | | | | Examiner Name | |
| | | | | Attorney Docket Number | UF-270C2 |
| Sheet | 7 | of | 7 | | |

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| | R14 | PHILLIPS, "Breath Tests in Medicine" <i>Scientific American</i> , 1992, pp. 52-57, XP001080159. | |
| | R15 | STOJANOVIC <i>et al.</i> , "Aptamer-Based Folding Fluorescent Sensor for Cocaine" <i>Journal of the American Chemistry Society</i> , 2001, Vol. 123, pp. 4928-4931. | |
| | R16 | WOHLTJEN <i>et al.</i> , "Determination of Partition Coefficients from Surface Acoustic Wave Vapor Sensor Responses and Correlation with Gas-Liquid Chromatographic Partition Coefficients", <i>Anal. Chem.</i> , 1988, Vol. 60, pp. 869-875. | |
| | R17 | WOHLTJEN <i>et al.</i> , "Surface Acoustic Wave Devices for Chemical Analysis", <i>Anal. Chem.</i> , 1989, Vol. 61, No. 11, pp. 704A-712A. | |
| | R18 | WOHLTJEN <i>et al.</i> , "Vapor Detection with Surface Acoustic Wave Microsensors", <i>Chemical Sensors and Microinstrumentation</i> , 1989, pp. 157-175. | |
| | R19 | | |
| | R20 | | |
| | R21 | | |
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